

Application No.: 10/086,542 Attorney Docket No.: SALK1790-6
Filing Date: February 28, 2002 (088802-3457)
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Listing of Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A transgenic, non-human mammal, wherein said mammal contains at least one FLP recombination target site in the genomic DNA thereof.
2. (Original) A transgenic, non-human mammal according to claim 1, wherein said FLP recombination target site is positioned within at least a portion of one or more gene(s) of interest.
3. (Original) A transgenic, non-human mammal according to claim 1, further comprising a nucleotide sequence encoding, and capable of expressing, in transgenic, non-human mammals, a FLP recombinase.
4. (Original) A transgenic, non-human mammal according to claim 1, further comprising FLP recombinase.
5. (Original) A transgenic, non-human mammal according to claim 1, wherein said mammal is a mouse.
6. (Original) A transgenic, non-human mammal according to claim 1, wherein said mammal is a rat.
7. (Original) A transgenic, non-human mammal according to claim 1, wherein said mammal is a monkey.

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8. (Original) A transgenic, non-human mammal according to claim 1, wherein said mammal is a hamster.

9. (Original) A transgenic, non-human mammal according to claim 2, wherein said gene(s) of interest provide a readily analyzable marker feature to the host system.

10. (Original) A transgenic, non-human mammal according to claim 9, wherein said marker is selected from the group consisting of β -galactosidase, thymidine kinase, tyrosinase, and antibiotic resistance.

11. (Previously amended) A transgenic, non-human mammal according to claim 1, wherein said FLP recombination target site has the sequence:

5' - GAAGTTCCTATTCTCTAGAAAGTATAGGAAGTTC - 3' (SEQ ID NO:3),
or functional equivalents thereof.

12. (Original) A transgenic, non-human mammal according to claim 2, further comprising an additional DNA fragment, wherein said additional DNA fragment is selected from:

- (a) at least a second portion of said first gene of interest, or
- (b) at least a portion of a second gene of interest;

wherein said second DNA contains at least one FLP recombination target site; and
wherein said second DNA, when combined in reading frame with said first DNA, provides a functional gene.

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13. (Original) A transgenic, non-human mammal according to claim 2, further comprising an additional DNA fragment, wherein said additional DNA fragment is selected from:

- (a) at least a second portion of said first gene of interest, or
- (b) at least a portion of a second gene of interest;

wherein said second DNA contains at least one FLP recombination target site; and wherein site-specific recombination disrupts the function of said first gene of interest.

14. (Original) A transgenic, non-human mammal according to claim 13, wherein said function is colorimetrically detectable, immunologically detectable or genetically detectable.

15. (Original) A transgenic, non-human mammal according to claim 3, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.

16. (Original) A transgenic, non-human mammal according to claim 4, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.

17. (Original) A transgenic, non-human mammal according to claim 9, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.

18. (Original) A transgenic, non-human mammal according to claim 12, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.

19. (Original) A transgenic, non-human mammal according to claim 13, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.